

Niagara Machine & Tool Works

Buffalo, N. Y.

Manufacturers of

NIAGARA

Machines and Tools for Sheet Metal Working

All improvements of real value developed during fifty years' experience in building machines and tools for sheet metal working are incorporated in Niagara Machines. Strength, rigidity, long life, modern design and reliability are outstanding features. Niagara Machines are particularly adapted to school use. The following tabulation gives five suggested equipment lists, for various types and sizes of classes. Page references are to Catalog No. 56. Copy furnished on request. Floor plans and detailed equipment lists are given in Circular No. 103. Write for copy.

LIST NO. 1 is suggested for Vocational Schools and will accommodate a class of twenty to twenty-five students. Equipment listed costs about \$1,800.00.

LIST NO. 2 is suggested for Technical or Senior High Schools and will accommodate a class of fifteen to twenty students. Equipment listed costs about \$1,220.00.

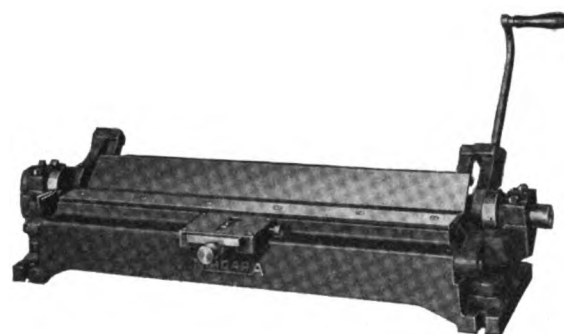
LIST NO. 3 is suggested for Junior High Schools devoting a separate shop to sheet metal working. Equipment listed would accommodate a class of ten to fifteen students and cost about \$785.00.

LIST NO. 4 is suggested for Industrial Arts and Manual Training courses. Equipment listed costs about \$420.00.

LIST NO. 5 is also recommended for Industrial Arts courses or for composite shops. Equipment listed costs about \$240.00.

Bench Machines

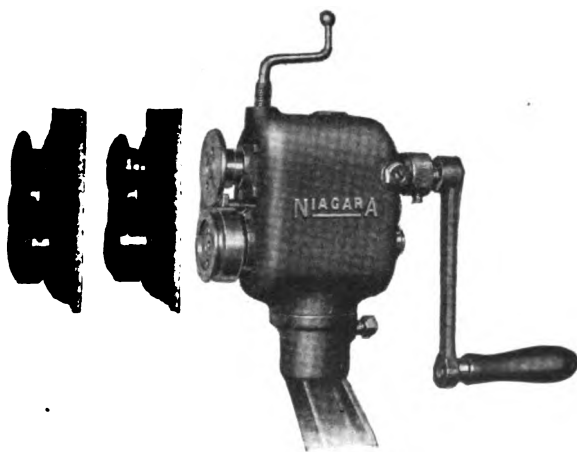
No.		Page No.	List No.				
			1	2	3	4	5
No. 2	21" Niagara Adjustable Bar Folder....	7	1				1
No. 3	30" Niagara Adjustable Bar Folder....	7	1	1	1	1	
No. 4	36" Niagara Adjustable Bar Folder....	7	1				
No. 48	30" Niagara Adjustable Pipe Folder....	11	1				
No. 131C	Niagara Combination Bench Machine with stand.....	17B					1
No. 131B	Niagara Burring Machine with stand...	17B	2	1	1	1	
No. 131T	Niagara Turning Machine with stand...	17B	2	1	1	1	
No. 131W	Niagara Wiring Machine with stand...	17B	2	1	1	1	
No. 138	Buffalo Small Burring Machine with stand.....	21	1				
No. 140	Buffalo Elbow Edger with stand.....	21	1	1			
No. 156	Superior Setting Down Machine with stand.....	24	1	1	1		
No. 185	Niagara Crimper and Beader with stand.....	28	1	1			
No. 194	Niagara Beader with stand.....	30B	1	1	1	1	1
	Crimping Rolls (pair) for No. 194 Beader.....				1	1	
No. 255	20" Buffalo Groover.....	43					1
No. 258	30" Niagara Groover (No. 2).....	43		1	1		
No. 259	36" Niagara Groover (No. 2).....	43	1	1	1		
No. 280	Moore's Double Seamer, with stand.....	47	1	1	1		
No. 330	2"x30" Niagara Slip Roll Former.....	56A	1	1	1	1	1
No. 331	2"x36" Niagara Slip Roll Former.....	56A	1				
No. 438	Niagara Wire Straightener for hand.....	63	1				
No. 440	Niagara Wire Cutter and Bail Former.....	63	1				
No. 854	30" Niagara Adjustable Gutter Beader.....	86	1	1			
No. 914	Niagara Ring and Circle Shear (No. 11).....	91	1	1	1		
No. 972	Niagara Lever Punch (No. 14).....	104	1				
No. 996	Niagara Combined Shear and Punch (No. 3).....	108	1				
No. 1012	Niagara Scroll Shear (No. 1).....	109	1				
	Stationary Vise—4" Jaw.....		1	2	1		
	Stationary Vise—5" Jaw.....		1				
	Throatless Shear—No. 18 Gage.....		1				



No. 3. Niagara Adjustable Bar Folder

Floor Machines

No.		Page No.	List No.				
			1	2	3	4	5
No. 937	30" Queen City Foot Shear—No. 18 Gage.....	98		1	1		
No. 938	36" Queen City Foot Shear—No. 18 Gage.....	98	1				
	8 ft. Steel Cornice Brake—No. 18 Gage.....		1	1			
	Niagara Hexo-Bench.....	17A	2	1	1	1	1



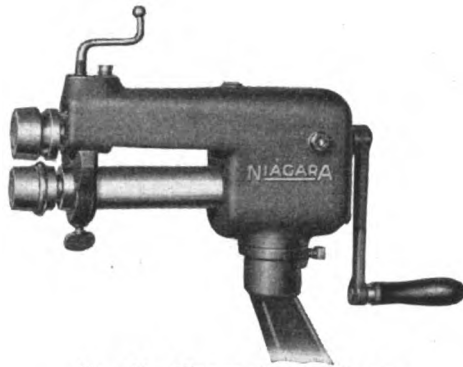
No. 131-C. Niagara Combination Bench Machine



No. 938. Queen City Foot Shear

Niagara Machine & Tools Works, Buffalo, N. Y.

Niagara Machine and Tool Works, Continued



No. 194. Niagara Beading Machine

Hand Tools

Note: Quantity designated by (*)—order one for each student in class.

No.	Description	Page No.	List No.				
			1	2	3	4	5
No. 9	Niagara Straight Snips.....	75	*	*	*	6	4
No. 8	Niagara Snips R. H. cut for L. H. Man.....	75	2				
No. 018	Buffalo Circle Snips.....	76	6	4	2	1	1
No. 5	Niagara Extra Heavy Snips.....	76	2				
No. 623	Niagara Double Cutting Snips.....	77	2	1			
No. 625	8-ft. Niagara Steel Straight Edge.....	77	1				
No. 4	Niagara Bench Shear.....	78	1	1			
No. 0	Niagara Rivet Sets, $\frac{1}{4}$ " hole.....	79	1	1	1	1	1
No. 1	Niagara Rivet Sets, $\frac{1}{2}$ " hole.....	79	1	1			
No. 2	Niagara Rivet Sets, $\frac{3}{4}$ " hole.....	79	*	*	*	6	1
No. 3	Niagara Rivet Sets, 1" hole.....	79	1	1			
No. 4	Niagara Rivet Sets, $\frac{1}{4}$ " hole.....	79	1				
No. 5	Niagara Rivet Sets, $\frac{1}{2}$ " hole.....	79	1	1	1	1	1
No. 6	Niagara Rivet Sets, $\frac{3}{4}$ " hole.....	79	1				
No. 7	Niagara Rivet Sets, 1" hole.....	79	1				
No. 8	Niagara Rivet Sets, $\frac{1}{4}$ " hole.....	79	1				
No. 00	Niagara Grooving Tool, $\frac{1}{2}$ ".....	79	1				
No. 1	Niagara Grooving Tool, $\frac{3}{4}$ ".....	79	1	1			
No. 2	Niagara Grooving Tool, 1".....	79	1				
No. 3	Niagara Grooving Tool, $\frac{1}{4}$ ".....	79	1	1	1	1	1
No. 4	Niagara Grooving Tool, $\frac{3}{4}$ ".....	79	1				
No. 5	Niagara Grooving Tool, 1".....	79	1	1	1	1	1
No. 7	Niagara Grooving Tool, $\frac{1}{4}$ ".....	79	1	1			
	$\frac{3}{4}$ " Niagara Hollow Punch.....	79	1	1	1	1	1
	$\frac{1}{2}$ " Niagara Hollow Punch.....	79	1	1	1	1	1
	$\frac{3}{4}$ " Niagara Hollow Punch.....	79	1				
	$\frac{1}{2}$ " Niagara Hollow Punch.....	79	1	1	1		
	$\frac{3}{4}$ " Niagara Hollow Punch.....	79	1	1	1		
	$\frac{1}{2}$ " Niagara Hollow Punch.....	79	1	1			
	$\frac{3}{4}$ " Niagara Hollow Punch.....	79	1	1			
	$\frac{1}{2}$ " Niagara Hollow Punch.....	79	1	1			
	$\frac{3}{4}$ " Niagara Hollow Punch.....	79	1	1			
	2" Niagara Hollow Punch.....	79	1				
	$\frac{1}{4}$ " Niagara Solid Punch.....	79	2	1	1	1	1
	$\frac{3}{4}$ " Niagara Solid Punch.....	79	2	1			
	1" Niagara Solid Punch.....	79	*	*	*	6	1
	$\frac{1}{2}$ " Niagara Solid Punch.....	79	2	1	1	1	1
	$\frac{3}{4}$ " Niagara Solid Punch.....	79	2	1	1	1	1
	1" Niagara Solid Punch.....	79	2	1	1	1	1
	$\frac{1}{2}$ " Niagara Solid Punch.....	79	2				
No. 756	Niagara Prick Punch.....	79	*	*	*	4	1
No. 769	Niagara Scratch Awl.....	80	*	*	*	6	4
No. 2	Niagara Raising Hammer.....	80	1				
No. 3	Niagara Raising Hammer.....	80	2	3	1		
No. 4	Niagara Raising Hammer.....	80	1				
No. 3	Niagara Riveting Hammer.....	80	*	*	*	6	4
No. 3	Niagara Setting Hammer.....	80	*	*	*	1	1
No. 788	36" Plain Steel Circumference Rule.....	81	2	2	1	1	1
No. 792	Niagara Handy Tongs.....	81	2	2	1		
	2 $\frac{1}{2}$ " Niagara Hickory Mallet.....	81	*	*	*	6	4
No. 991	Niagara Portable Lever Punch (No. 1A).....	107	2	1	1	1	1
	$\frac{3}{4}$ " Cold Chisel.....		*	*	*	4	1
	10" Wing Dividers.....		*	*	*	6	1
	6" Flat Nose Pliers.....		*	*	*	4	1
	12" Steel Rule.....		*	*	*		
	Cutting Nippers.....		2	1	1	1	1
	8" Screw Drivers.....		2	1	1		
	12" Screw Drivers.....		1				
	U. S. Std. Sheet Metal Gauge.....		1	1	1		
	12" Steel Square.....		6				
	2 ft. Steel Square.....		3	3	2	1	1
	6" Side Cutting Pliers.....		6	1			
	6" Round Nose Pliers.....		2	1	1		
	1 $\frac{1}{2}$ lb. Ball Pein Hammer.....		1	1			
	10" Monkey Wrench.....		1				

Stakes

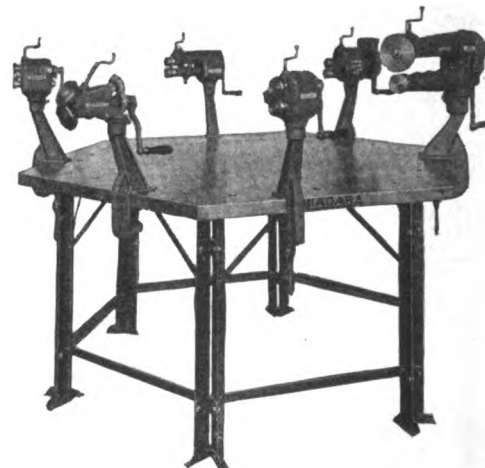
No.	Description	Page No.	List No.				
			1	2	3	4	5
No. 516	Niagara Beakhorn Stake (No. 2).....	71	1	1	1	1	1
No. 520	Niagara Double Seaming Stake (No. 1).....	71	1	1	1	1	
No. 525	Niagara Conductor Stake (No. 00).....	71	1	1			
No. 528	Niagara Blowhorn Stake.....	71	1	1	1	1	1
No. 530	Niagara Creasing Stake with horn.....	71	1	1	1	1	1
No. 532	Niagara Candlemould Stake.....	71	1	1			
No. 534	Niagara Needle Case Stake.....	71	1	1	1	1	1
No. 535	Niagara Coppersmith Square Stake.....	72	1				
No. 536	Niagara Common Square Stake.....	72	1	1	1	1	1
No. 541	Niagara Bevel Edge Square Stake (No. 2).....	72	1	1			
No. 547	Niagara Hatchet Stake (No. 3).....	72	1	1	1		
No. 548	Niagara Hatchet (No. 4).....	72	1			1	1
No. 552	Niagara Bottom Stake (No. 1).....	72	1	1	1		
No. 563	Niagara Solid Mandrel (No. 0).....	73	1	1	1		
No. 570	Niagara Round Head Stake.....	73	1	1			
No. 572	Niagara Double Seaming Stake with four heads.....	73	1	1			
No. 575	Niagara Hollow Mandrel (No. 0).....	73	1	1	1	1	1
No. 584	Niagara Bench Plate, 8"x37" (No. 1).....	74	4	3	2	1	1



No. 330. Niagara Slip Roll Former

Soldering Equipment

No.	Description	Page No.	List No.				
			1	2	3	4	5
	Double Burner Gas Furnaces.....		6	6	4	2	1
	Soldering Coppers (pairs), 3 lb. per pair.....		6	6	4	2	1
	Soldering Coppers (pairs), 5 lb. per pair.....		1				
	Soldering Copper Handles.....		14	12	8	4	2
	Acid Cups.....		6	6	4		
	Stone Dipping Solution Jars.....		6	6	4		
	Acid Brushes.....		6	6	4		
	Soldering Scrapers.....		6	6	4		
	Wire Brushes.....		2				



Niagara Hexo-Bench

A six-sided bench particularly adapted for holding bench machines. Will accommodate six machines, giving maximum working space combined with minimum floor space. Does not require special standards for the machines. Top is made of two-inch dressed maple, and the support consists of six rigid angle iron steel legs securely tied into one solid unit. Width across flats, 5 feet. Height, 32 inches. Shipping weight, 250 pounds. Shipped knocked down complete with all necessary bolts and screws for assembling.

Send for catalog No. 56 and Circular No. 103.